No.



200300099

<u>THE UNITED STATES OF AVIERIOA</u>

TO ALL TO WHOM: THESE; PRESENTS SHALL COME;

Pioneer Hi-Bred International, Inc.

MICCOLS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN DUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY TION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'93M41'

In Testimon Merces, I have hereunto set my hand and caused the seal of the Plant Barrety Brotection Office to be affixed at the City of Washington, D.C. this twenty fourth day of June, the year two thousand three.

Attest:

Q2mJhc

Commissioner Plant Variety Protection Office Agricultural Marketing Service Secretary of Agri

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)

NAME OF OWNER Pioneer Hi-Bred Inter	national, Inc			2. TEMPORARY DESIGNAT EXPERIMENTAL NAME	TION OR	3. VARIETY NAME "93M41
4. ADDRESS (Street and No., or R.F.D. No. 7300 N. W. 62 nd Avenue P.O. Box 1004 Johnston, IA 50131	City, State, and ZIP Code, and Count	try)		5. TELEPHONE (include 515-254-2638	area code)	FOR OFFICIAL USE ONLY PVPO NUMBER
				6. FAX (include area cod 515-253-2478	e) "	FILING DATE
7. IF THE OWNER NAMED IS NOT A "PERS ORGANIZATION (corporation, partnership Corporate	GON", GIVE FORM OF , association, etc.)	8. IF INCORPORA STATE OF INC lowa	ATED, GIVE ORPORATION	9. DATE OF INCORPORATI May 6, 1926	ON	1/28/03
10. NAME AND ADDRESS OF OWNER R Daria Schmidt, Ph. D. 7300 N.W. 62 nd Avenue P.O. Box 1004 Johnston ,JA 50131-1004	EPRESENTATIVE(S) TO SERVE IN T Steve Callestine, Exq 7100 N.W 62 rd Avenue P.O Box 1000 Johnston, IA 50131-1000	HIS APPLICATION. (First person listed will	l receive all papers)		FILING AND EXAMINATION FEES: \$ 2705. DATE 1/28/03 CERTIFICATION FEE: \$ 432 00 DATE 5/5/03
11. TELEPHONE (Include area code) 515-254-2638	12. FAX (Include area code) 515-253-2478		-MAIL nmidt@pioneer.com		14. CRO Soybean	P KIND (Common Name)
18. CHECK APPROPRIATE BOX FOR EACH reverse) a.	ng History of the Variety	instructions on	CERTIFIED :		f the Plant Val	RIETY BE SOLD AS A CLASS OF riety Protection Act) X NO (If "no," go to item 22)
b. X Exhibit B. Statement of Distinct. c. X Exhibit C. Objective Descript. d. X Exhibit D. Additional Descript.	ion of Variety tion of the Variety (Optional)		VARIETY BE	OWNER SPECIFY THAT SEED LIMITED AS TO NUMBER OF CH CLASSES?	CLASSES?	YES NO
verification that tissue culture w repository)	e untreated seeds or, for tuber propag ill be depositied and maintained in an a	approved public	LIMITED AS T	WINER SPECIFY THAT THE C TO NUMBER OF GENERATION		YES NO
g. LJ X Filling and Examination Fee (States" (Mail to the Plant Variet	\$2,705), made payable to "Treasurer o y Protection Office)	ar the Onlea	NUMBER 1, 2 (If additional e	explanation is necessary, please		re indicated on the reverse.)
22. HAS THE VARIETY (INCLUDING ANY HAFROM THIS VARIETY BEEN SOLD, DISPOTHER COUNTRIES? IF YES, YOU MUST PROVIDE THE DATE FOR EACH COUNTRY AND THE CIRCU	OSED OF, TRANSFERRED, OR USE X NO	ED IN THE U. S. OR	PROPERTY F	RIGHT (PLANT BREEDER'S RI	GHT OR PAT	NO E AND ASSIGNED
24. The owners declare that a viable sample of for a tuber propagated variety a tissue cult The undersigned owner(s) is(are) the ownerd is entitled to protection under the provious Owner(s) is(are) informed that false representations.	er of this sexually reproduced or tuber isions of Section 42 of the Plant Varie	propagated plant var ty Protection Act.	riety, and believe(s) th			
SIGNATURE OF OWNER 124 Schrage	4	1	SIGNATURE OF (OWNER .		
NAME (Please print or type) Daria H. Schmidt			NAME (Please prid	nt or type)		
CAPACITY OR TITLE Director, Technology Integration and Associativ	"/(/	03	CAPACITY OR TI			DATE
T-470 (04-01) designed by the Plant Variety Pro	tection Office with WordPerfect 6.0a.	Replaces STD-470 ((02-99) which is obsol	lete. (See reverse for ins	tructions and	information collection burden statement)

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be **received** in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to **reproduce** the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initiated and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

200300099

ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- **22. CONTINUED FROM** (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
- U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces ST-470 (02-99) which is obsolete.

Exhibit A. Origin and Breeding History of the Variety

200300099

Soybean Variety 93M41

Variety 93M41 evolved from a cross made in the summer of 1996 in Illinois with the following parentage:

Parentage: 21523L030/L00458

21523L030 = A2835/MO15733 L00458 = 21523L030/9363* 21523L030 = A2835/MO15733

*9363 is a commercial line with the Roundup Ready (40-3-2) gene

Variety 93M41 is an F3-derived line which was advanced to the F4 generation by modified single-seed descent. The F4 progeny row of 93M41 was grown in a plant row yield trial in the summer of 1998. Subsequently, 93M41 has undergone four years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield, Phytophthora resistance, resistance to soybean cyst nematode, and resistance to Roundup branded herbicides, variety 93M41 was assigned a commercial number.

The purification block was grown in 2000 Illinois in 36 subline rows, of which 23 were harvested. A quarter acre increase was grown in Chile in 2000/2001. Twenty-two (22) acres of parent seed stock were grown in 2001. Seven hundred forty-nine (749) acres of parent and production seed were grown in the summer of 2002.

Exhibit B. Statement of Distinctness

200300099

Soybean Variety 93M41

Variety 93M41 is most similar to variety 93B47. Both varieties have white flowers, multi-race resistance to *Phytophthora megasperma* as governed by the Rps1c gene, and resistance to Roundup branded herbicides. However, 93M41 has gray pubescence, yellow seed with buff hila, and resistance to Race 3 of soybean cyst nematode whereas 93B47 has tawny pubescence, yellow seed with brown hila, and is not resistant to Race 3 of soybean cyst nematode.

Variety 93M41 is also similar to 93B67. Both varieties have white flowers, multi-race resistance to *Phytophthora megasperma* as governed by the Rps1c gene, resistance to Race 3 of soybean cyst nematode, and resistance to Roundup branded herbicides. However, 93M41 has gray pubescence, and yellow seed with buff hila, and whereas 93B67 has tawny pubescence and yellow seed with black hila.

Variety 93M41 is also similar to DSR357RR from Dairyland. Both varieties have white flowers, gray pubescence, yellow seed with buff hila, and resistance to Roundup branded herbicides. However, 93M41 has multi-race resistance to *Phytophthora megasperma* as governed by the Rps1c gene whereas DSR357RR does not carry a resistance gene at the Rps1 locus.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved - OMB No. 0581-0055

the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. B control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for tructions, searching existing data ources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

artment of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual nd marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, c.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

plaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326 W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 DD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max (L.) Merr.)

NAME OF APPLICANT(S)	FOR OFFICIAL USE ONLY
Pioneer Hi-Bred, International	P90 (M) R3 () () () 3 8
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Cod	200
7200 62nd Avenue P.O Box 1004 Johnston, IA 50131-1004	VARIETY NAME 93M41
	TEMPORARY OR EXPERIMENTAL DESIGNATION
PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal char-	acter of this variety in the boxes below.
Place a zero in the first box (e.g. 9 9 9 or 0 9) when number is either 99 or less of quantitative	
plant characters chould be based on a minimum of 100 plants. Comparative data should be determined from varieties	entered in the same trial. Royal
Horticulutral Society or any recognized color standard may be used to determine plant colors; designate system used:	
Please answer all questions for your variety; lack of response may delay progress of your application.	
A. MORPHOLOGY	
Seed Shape	
3 = Elongated $4 = Elongate - Flattened$ (L/T ratio . 1.2; T/W ratio < 1.2) (L/T ratio > 1.2; T/W ratio > 1.2)	
Seed Coat Color:	
1 = Yellow 2 = Green $3 = Brown$ $4 = Black$ $5 = Other$	r
Seed Coat Luster: (Please S	Specify
2 1 = Dull 2 = Shiny	
Seed Size:	
13.7 grams/100 seeds	
Hilum Color:	
1 = Buff 2 = Yellow 3 = Brown 4 = Gray 5 = Imperior	erfect Black
6 = Black 7 = Other (Please Specify)	

A. MORPHOLOGY (Continued)

Cotyledon Color:

1 = Yellow

2 = Green

Seed Protein Peroxidase Activity:

1

1 = Low

2 = High

Hypocotyl Color:

1

1 = Green ('Evans' or 'Davis') 2 = Green with Bronze

Bands below Cotyledons ('Woodworth' or 'Tracy') 3 = Light Purple below Cotyledons

('Beeson' or 'Pickett 71')

4 = Dark Purple extending to

200300099

unifoliolate leaves ('Hodgson', 'Coker', or

Leaflet Shape:

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please Specify)

Flower Color:

1

1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

2

1 = Tan

2 = Brown

3 =Black

Pubescence Color:

1

1 = Gray

2 = Brown (Tawny)

3 =Light Tawny

Plant Habit:

3

1 = Determinate

2 = Semi - Determinate 3 = Indeterminate

4 =Intermdeiate

Maturity Group:

06

1 = 000

2 = 00

3 = 0

4 = I

5 = II

6 = III

7 = IV

8 = V

9 = VI

10 = VII

11 = VIII

12 = IX

13 = X

14 = XI

15 = XII

Maturity Subgroup:

Please enter a value from 0 - 9

B. DISEASE REACTION

0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

Bacterial

0

Bacterial Pustule (Xanthomonas campestri pv. glycines (Nakano) Dye)

1

Bacterial Blight Pseudomonas syringa pv. glycinea (Coerper) Young, Dye, and Wilkie)

0

Wildfire Blight Pseudomonas syringa pv. tabaci (Wolf Foster) Young, Dye, Wilkie)

B. DISE	CASE REACTI	ON	(Continued)	0 = Nc	ot Tested	1 = Sus	sceptil	bl 2 = Resistant	3 = Tol	erant
Funga	! ; •				:					
1	Brown Spot (Septori	ia glycine s Hemmi)				20	0306	0000
. []	Frogeye Leaf S	pot (Cercospora sojina	Hara)	r e e	:				
0	race 1		0 race 2			0	rac	ce 3	0	race 4
0	race 5		0 race 6	•			Ot	the (Please Specify)		
0	Target Spot (C	orynes	spora cassiicola (BerkC	Curt.) Wei)					
0	Downey Mildew	(Perd	onospora trifolior	um var.	manchuric	(Naun	a.) Syd	l. ex Gäum)		
0	Powdery Milde	w (Mic	crosphaera diffus	a Cke. :	and Pk.)					
2	Brown Stem Ro	t (Ph	ialophora gregate	ı (Allin	gton Chan	ıberlain) W. C	Gams.)		
0	Stem Canker (A	Diapoi	rthe phaseolorum	(Cke.	and Ell.) Sa	cc. var	cauliv	ora Athow and Cal	dwell	
1	Pod and Stem B	light	(Diaporthe phase	eolorum	t (Cke. and	Ell.) Sa	.cc. va	r <i>sojae</i> (Lehman) V	Vehm	
0	Purple Seed Sta	in <i>(</i>	Cercospora kikud	hii (T.	Matsu. and	d Tomoy	yasu) (Gardener)		
1	Rhizoctonia Roc	ot Rot	(Rhizoctonia so	lani Ki	ühn)					
Phytopl	nthora Root Rot (Phytol	phthora megaspe	rma D	rechs. f. sp	glycine	ea (Ku	ıan Erwin))		
0	race 1	0	race 8	0	race 15		0	race 22		
0	race 2	0	race 9	0	race 16		0	race 23		
1	race 3	0	race 10	0	race 17		0	race 24		
1	race 4	0	race 11	0	race 18		1	race 25		
0	race 5	0	race 12	0	race 19		0	race 26		
0	race 6	0	race 13	0	race20			Other (Please S	pecify)	
2	race 7	0	race 14	0	race 21		<u> </u>			
1	Bud Blight (Tob	acco F	Ringspot Virus)	•.						
1	Yellow Mosaic (bean Y	Zellow Mosaic Vi	rus)						

3 = Tolerant

B. DISE	CASE REACTION	ONS (Ca	ntinued)	0 = Not	t Tested	1 = Susceptib	le 2 = Resistant	3 = Tolerant
Fungal			•					
1	Cowpea Mosaic	(Cowpea C	hlorotic Vii	us)				
1	Pod Mottle (Bea	n Pod Mott	le Virus)	. ,			2	00300099
1	Seed Mottle (Soy	bean Mosa	ic Virus)					
Nemato	de					. *		
Soybear	n Cyst Nematode	(Heterodero	ı glycines I	chinohe	e)			
1	race 1	0 race 4	1	0	race 9			
0	race 2	nace 5	5	0	race 14			
2	race 3) race 6	i		Other	(Please Specify	v)	
0	Lance Nematode	(Hoploair	nus columb	us Sher)			
0	Southern Root K	not Nemato	ode <i>(Meloi</i>	dogyne	incognita	(Kofoid and V	Vhite) Chitwo	
0	Northern Root K	not Nemato	ode <i>(Meloi</i>	dogyne	<i>hapla</i> Chi	itwood)		
0	Peanut Root Kno	t Nematode	(Meloidog	yne arei	naria (Nea	al) Chitwood)		
0	Reniform Nemato	ode (Rotyle	nchus renif	ormu I	Linwood a	and Olivera)		
0	Javanese Nemato	de <i>(Meloid</i>	ogyne javar	ica (Tı	reub) Chit	wood)		
	Other Nematode	(Please Sp	ecify)					
C. PHYS	SIOLOGICAL	RESPON	SES () = Not	Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
[<u>-</u>	Iron Chlorosis on							
0	Phosphorus				Oth	er <i>(Please Sp</i>	ecify)	
	Boron							
0	Aluminu							
0	Salt					·		
0 1	Drought							

D. INS	ECT REACTIONS	a ey	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Toler	ant
Fungal	I						
0	Mexican Bean Beetle (Epi	lachna varive	stis Mulsant)				
0	Potato Leaf Hopper (Emp	oasca fabae (l	Harris))		. .	2003 (0099
0	Other (Please Specify)						
E. HEI	RBICIDE REACTIONS) = Not Tested	1 = Susceptible	2 = Resistant		
0	Metribuzin						
0	Bentazone	•					
1	Sulfonylurea						
2	Glyphosate						
0	Glufosinate						
0	Pendimethalin				· ·		· . ·
0	Other (Please Specify)						
F. TRA	NSGENIC COMPOSIT	ION			-		
	evelopment of the subject var moval of genetic material from	•		genetic material fr Yes	om an organisn	ı other than a	soybean,
If yes, ple	ase complete the following in	fomation requ	uests*. Use add	itional pages if nece	essary.		
1. Please	state the vector's name:						
2. Please	state the vector components:						
3. Please	describe the genetic material	successfully	transferred into	the subject variety	•		
4. Please	describe the insertion protoc	ol:					•
* A lite the "Tran details of t	erature citation(s) explaining asgenic Composition" portion the vector components and in opment, Identification, and C	the four info of this form. sert elements	This section is are summarize	fully addressed in d in Figure 1 and T	the following pu able 1 on page	iblication. Sp 1453. Padgeti	ecific te, S.R. et
G. BIO	CHEMICAL MARKER	S					
Please des	scribe any biochemical inform le Sequences Repeats, Restric	nation here, w	vhich you believ nt Length Polyn	e will be helpful in norphisms, Isozymi	further describi c Characterizat	ng the subjection). Use add	t variety ditional

H. COMMENTS

200300099

Exhibit D. Additional Description of the Variety

200300099

Soybean Variety 93M41

In Exhibit C we have identified variety 93M41 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 93M41 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 93M41 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 93M41 is a mid Group 3 variety. If Group 3 varieties are divided into tenths, the relative maturity of 93M41 is 3.4.

EPRODUCE LOCALLY. Include form number and edition date on a		
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made 1974 (5 U.S.C. 552a) and the Paper	
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to de certificate is to be issued (7 U.S.C. 2 confidential until the certificate is iss	2421). The information is held
NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	2. VARIETY NAME
	OR EXPERIMENTAL NUMBER	1
Pioneer Hi-Bred International, Inc		93M41
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
7300 N.W. 62 nd Avenue P.O. Box 1004	515-254-2638	515-253-2478
Johnston, IA 50131-1004	7. PVPO NUMBER	
	2003	500099
8. Does the applicant own all rights to the variety? Mark an "X" in t		
If no, please explain.		X YES N
A		

 Is the applicant (individual or company) a U.S. National or a U.S. f no, give name of country 	. based company?	X YES N
10. Is the applicant the original owner?	If no, please answer one of the fo	llowing:
		
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Nation	nal(s)?
a. If the original rights to variety were owned by individual(s), is		nal(s)?
YES NO If no, give name of coun	itry	
b. If the original rights to variety were owned by a company(ies	ntry s), is (are) the original owner(s) a U.S. ba	
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1 2